

# Diagnostic tool CAN, SafetyBUS p, DeviceNet CANBUSview XL



InduSol America – Specialist in Fieldbus Technology



InduSol America  
980 Birmingham Rd  
Suite 721  
Alpharetta, GA 30004

Telephone:  
+1 (678) 880-6910

Email:  
info@indusolamerica.com  
Homepage:  
www.indusolamerica.com

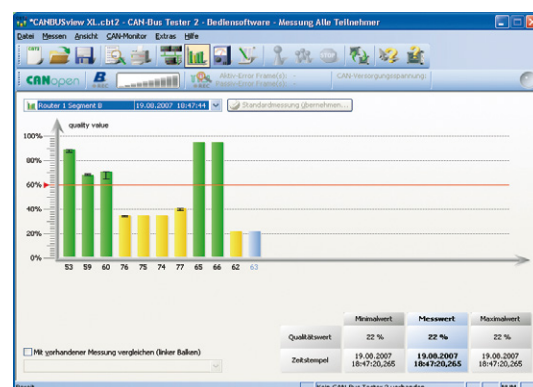
## The universal tester - Features at a glance

The **CANBUSview XL** is a universal measuring instrument for commissioning, analysis, monitoring, troubleshooting and maintenance of CAN based fieldbus protocols for example **CAN/CANopen**, **DeviceNet**, **SafetyBUS p** and **SAE J1939**.

### Quality value determination

By means of the especially developed measurement method the signal ratio is rated qualitatively and shown device-related in a bar chart. The quality value (Q value) represents the most essential physical attributes of the bus and displays them as a bar height from 0 to 100%. The essential factors for quality value determination are **edge steepness**, **signal-to-noise ratio** and **reflections**.

All three components contribute equally to the calculation of the quality level.



### Oscilloscope display with telegram analysis

For evaluation of signal transitions and also for measuring reflection points the **CANBUSview XL** shows the signal shape of the measured telegram and shows it in an oscilloscope display of the user software. The scanning works with 64 times the adjusted baud rate over 160 bit in total.



### Ordering details

Ordering details	Art. No.
CANBUSview XL III for CAN	119010001
Extension CANopen/SafetyBUS p	119010002
Extension DeviceNet	119010003
Extension SAE J1939	119010004
Extension CAN monitor	119010005



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## The universal tester - Functions at a glance

### Online monitoring

- Bus status (colored)
- Bus efficiency in percent
- Error telegrams (number)

In contrast to the quality value which evaluates generally the bus signal quality, the determinations of signal-to-noise ratio, edge steepness and oscilloscope function are very helpful for a targeted troubleshooting.

In general, all measurements have to be performed at both segment ends. Therefore measuring points should be provided already while projecting.

### Long-term analysis via online trigger function

Trigger functions for logical or physical events allow a long-term analysis of the bus over a period of several days or weeks. All telegrams on the bus will be undergone physical and logical online evaluation.

### Line test

The line test feature is an additional function you have to performed before each commissioning to ensure a correct bus cabling.

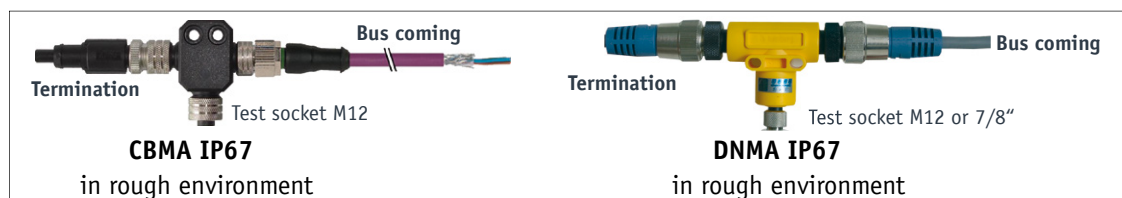
The measurement has to be done in offline mode, all devices have to be disconnected from the bus.

With the line test shortcircuits, interruptions, the function of terminating resistors, the loop resistance of bus line, the power supply line and the overall line length can be determined.

### Retrieval of highly diagnostic report

After measuring you can print or store an inspection report. Before printing the data region of a selected measurement or node can be individually adapted.

## Measuring and diagnostic interfaces



### Ordering details

Ordering details	Art. No.
Measuring point IP67 CMBA	119040000
Measuring point IP67 DNMA M12	119040003
Measuring point IP67 DNMA 7/8"	119040002